

PATENT/Docket No. 6097.N DV2

Serial No. 10/600,815.

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Art Unit : 1641
Examiner : Pensee T. Do
Applicant(s) : D.E. Epps, C.K. Marschke
Serial Number : 10/600,815
Filed : 20 June 2003
For : Fluorescence-Based High Throughput Screening Assays For Protein Kinases and Phosphatases

Per our phone conversation today. This is what was intended by the Amendment Filed on 7/15/2004.
I apologize for the inconvenience.

1
/ (new) An article of manufacture comprising, packaged together:

- (i) a reporter molecule comprising a fluorescent label and a phosphorylated amino acid,
- (ii) an antibody which selectively binds to a molecule comprising said phosphorylated amino acid; and
- (iii) a substrate molecule comprising the same amino acid molecule that is phosphorylated in said reporter molecule;

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wherein said substrate molecule is labeled with an acceptor fluorophore and wherein said antibody is labeled with a donor fluorophore which corresponds to the acceptor fluorophore labeling said substrate molecule.

- 2
10. (new) The article of manufacture of claim ¹9 wherein said phosphorylated amino acid is selected from the group consisting of serine, threonine and tyrosine.
- 3
11. (new) The article of manufacture of claim ¹9 further comprising an enzyme selected from the group consisting of kinases and phosphatases.
- 4
12. (new) The article of manufacture of claim ³11 wherein the enzyme is a kinase.
- 5
13. (new) The article of manufacture of claim ³11 wherein the enzyme is a phosphatase.
- 6
14. (new). The article of manufacture of claim ¹9 further comprising a phosphate source.
- 7
15. (new) The article of manufacture of claim ⁶14 further comprising an enzyme selected from the group consisting of kinases and phosphatases.
- 8
16. (new) The article of manufacture of claim ⁷15 wherein the enzyme is a kinase.
- 9
17. (new) The article of manufacture of claim ⁷15 wherein the enzyme is a phosphatase.
- 10
18. (new) The article of manufacture of claim ¹9 further comprising a phosphate acceptor.
- 11
19. (new) The article of manufacture of claim ¹⁰14 18 further comprising an enzyme selected from the group consisting of kinases and phosphatases.
- 12
20. (new) The article of manufacture of claim ¹¹19 wherein the enzyme is a kinase.
- 13
21. (new) The article of manufacture of claim ¹¹19 wherein the enzyme is a phosphatase.
- 14
22. (new) An article of manufacture comprising, packaged together:
(i) a reporter molecule comprising a fluorescent label and a phosphorylated amino acid,

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(ii) an antibody which selectively binds to a molecule comprising said phosphorylated amino acid; and
(iii) a substrate molecule comprising the same amino acid molecule that is phosphorylated in said reporter molecule;
wherein said substrate molecule is labeled with an donor fluorophore and wherein said antibody is labeled with a acceptor fluorophore which corresponds to the donor fluorophore labeling said substrate.

¹⁵
23. (new) The article of manufacture of claim ¹⁴22 wherein said phosphorylated amino acid is selected from the group consisting of serine, threonine and tyrosine.

¹⁶
24. (new) The article of manufacture of claim ¹⁴22 further comprising an enzyme selected from the group consisting of kinases and phosphatases.

¹⁷
25. (new) The article of manufacture of claim ¹⁶24 wherein the enzyme is a kinase.

¹⁸
26. (new) The article of manufacture of claim ¹⁶24 wherein the enzyme is a phosphatase.

¹⁹
Rule 1.126 25. ¹⁴27 (new) The article of manufacture of claim 22 further comprising a phosphate source.

²⁰
Rule 1.126 26. ¹⁹28 (new) The article of manufacture of claim 25 ¹⁹27 further comprising an enzyme selected from the group consisting of kinases and phosphatases.

²¹
Rule 1.126 27. ²⁰29 (new) The article of manufacture of claim 26 ²⁰28 wherein the enzyme is a kinase.

²²
Rule 1.126 28. ²⁰30 (new) The article of manufacture of claim 26 ²⁰28 wherein the enzyme is a phosphatase.

²³
Rule 1.126 29. ¹⁴31 (new) The article of manufacture of claim 22 further comprising a phosphate acceptor.

²⁴
Rule 1.126 30. ²³32 (new) The article of manufacture of claim 29 ²³31 further comprising an enzyme selected from the group consisting of kinases and phosphatases.

²⁵
R. 1.126 31. ²⁴33 (new) The article of manufacture of claim 30 ²⁴32 wherein the enzyme is a kinase.

²⁶
R. 1.126 32. ²⁴34 (new) The article of manufacture of claim 30 ²⁴32 wherein the enzyme is a phosphatase.

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